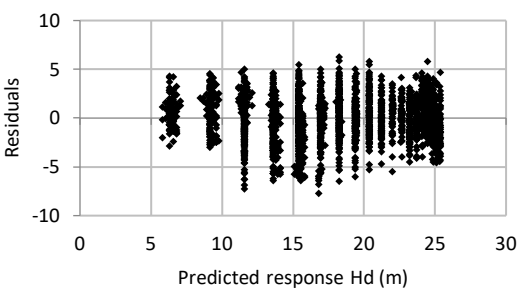
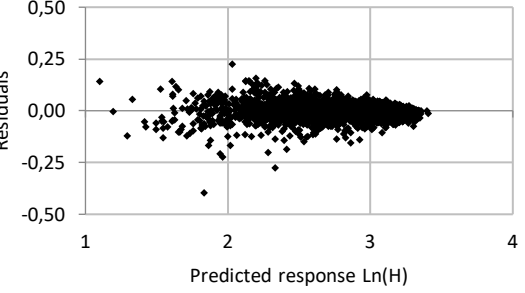
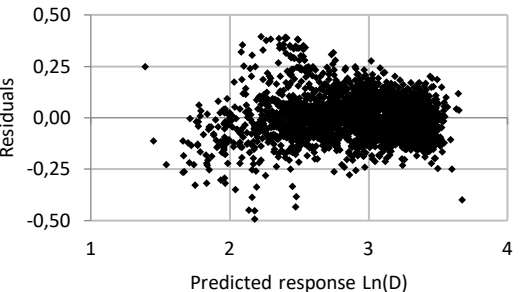
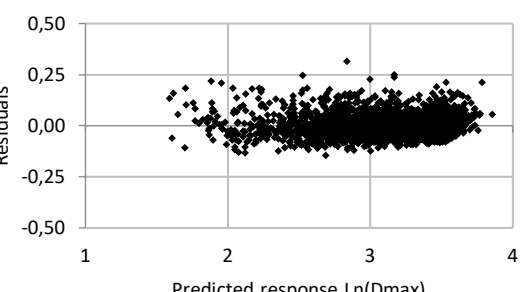
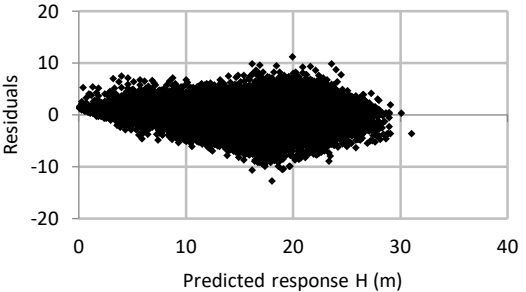
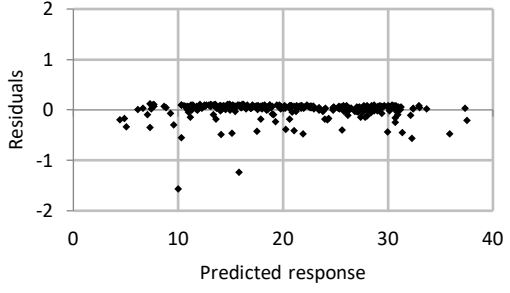
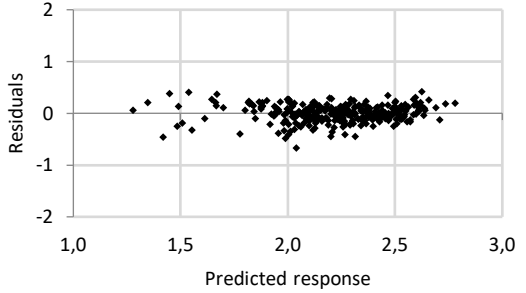


Seppänen P., Mäkinen A. (2020). Comprehensive yield model for plantation teak in Panama. *Silva Fennica* vol. 54 no. 5 article id 10309. <https://doi.org/10.14214/sf.10309>.

Supplementary file S5. Yield model A-B-C fittings

<p>Chapman-Richards model for dominant height (A-B-C) $Hd=B0*(1-Exp(-B1*t))^{B2}$</p> <p>Estimation Statistics</p> <table border="1"> <thead> <tr> <th>N</th> <th>R²</th> <th>Bias</th> <th>RMSE</th> </tr> </thead> <tbody> <tr> <td>2634</td> <td>0.857977</td> <td>0.007791</td> <td>2.15124</td> </tr> </tbody> </table> <p>Parameter Estimates</p> <table border="1"> <thead> <tr> <th>Coefficient</th> <th>Estimate</th> <th>Std.Error</th> <th>t-value</th> <th>Pr(> t)</th> </tr> </thead> <tbody> <tr> <td>B0</td> <td>27.00445</td> <td>0.27150</td> <td>99.465</td> <td>0.00000</td> </tr> <tr> <td>B1</td> <td>0.13794</td> <td>0.00634</td> <td>21.740</td> <td>0.00000</td> </tr> <tr> <td>B2</td> <td>0.91678</td> <td>0.02941</td> <td>31.168</td> <td>0.00000</td> </tr> </tbody> </table>	N	R ²	Bias	RMSE	2634	0.857977	0.007791	2.15124	Coefficient	Estimate	Std.Error	t-value	Pr(> t)	B0	27.00445	0.27150	99.465	0.00000	B1	0.13794	0.00634	21.740	0.00000	B2	0.91678	0.02941	31.168	0.00000	<p>Dominant Height Model A-B-C Residuals</p> 					
N	R ²	Bias	RMSE																															
2634	0.857977	0.007791	2.15124																															
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<p>Logarithmic model for mean height (B-C) $H=Exp(B0+B1*Ln(Hd))$</p> <p>Estimation Statistics</p> <table border="1"> <thead> <tr> <th>N</th> <th>R²</th> <th>Bias</th> <th>RMSE</th> </tr> </thead> <tbody> <tr> <td>2634</td> <td>NA</td> <td>0.004004</td> <td>0.543976</td> </tr> </tbody> </table> <p>Parameter Estimates</p> <table border="1"> <thead> <tr> <th>Coefficient</th> <th>Estimate</th> <th>Std.Error</th> <th>t-value</th> <th>Pr(> t)</th> </tr> </thead> <tbody> <tr> <td>B0</td> <td>-0.23378</td> <td>0.0637</td> <td>-36.706</td> <td>0.00000</td> </tr> <tr> <td>B1</td> <td>1.06784</td> <td>0.00223</td> <td>478.377</td> <td>0.00000</td> </tr> </tbody> </table>	N	R ²	Bias	RMSE	2634	NA	0.004004	0.543976	Coefficient	Estimate	Std.Error	t-value	Pr(> t)	B0	-0.23378	0.0637	-36.706	0.00000	B1	1.06784	0.00223	478.377	0.00000	<p>Mean Height Model B and C Residuals</p> 										
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<p>Logarithmic model for mean diameter (B-C) $D=Exp(B0+B1*Ln(t)-B2*Ln(N)+B3*Ln(Hd))$</p> <p>Estimation Statistics</p> <table border="1"> <thead> <tr> <th>N</th> <th>R²</th> <th>Bias</th> <th>RMSE</th> </tr> </thead> <tbody> <tr> <td>2634</td> <td>NA</td> <td>0.052359</td> <td>1.942401</td> </tr> </tbody> </table> <p>Parameter Estimates</p> <table border="1"> <thead> <tr> <th>Coefficient</th> <th>Estimate</th> <th>Std.Error</th> <th>t-value</th> <th>Pr(> t)</th> </tr> </thead> <tbody> <tr> <td>B0</td> <td>0.88996</td> <td>0.05380</td> <td>16.54300</td> <td>0.00000</td> </tr> <tr> <td>B1</td> <td>0.13238</td> <td>0.00877</td> <td>15.09208</td> <td>0.00000</td> </tr> <tr> <td>B2</td> <td>0.09009</td> <td>0.00630</td> <td>14.30539</td> <td>0.00000</td> </tr> <tr> <td>B3</td> <td>0.81670</td> <td>0.01307</td> <td>62.48083</td> <td>0.00000</td> </tr> </tbody> </table>	N	R ²	Bias	RMSE	2634	NA	0.052359	1.942401	Coefficient	Estimate	Std.Error	t-value	Pr(> t)	B0	0.88996	0.05380	16.54300	0.00000	B1	0.13238	0.00877	15.09208	0.00000	B2	0.09009	0.00630	14.30539	0.00000	B3	0.81670	0.01307	62.48083	0.00000	<p>Mean Diameter Model B-C Residuals</p> 
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<p>Logarithmic model for maximum diameter (A-B) $D_{max}=Exp(B0+B1*Ln(t)+B2*Ln(N)+B3*Ln(D))$</p> <p>Estimation Statistics</p> <table border="1"> <thead> <tr> <th>N</th> <th>R²</th> <th>Bias</th> <th>RMSE</th> </tr> </thead> <tbody> <tr> <td>2634</td> <td>NA</td> <td>0.044950</td> <td>1.314148</td> </tr> </tbody> </table> <p>Parameter Estimates</p> <table border="1"> <thead> <tr> <th>Coefficient</th> <th>Estimate</th> <th>Std.Error</th> <th>t-value</th> <th>Pr(> t)</th> </tr> </thead> <tbody> <tr> <td>B0</td> <td>0.03871</td> <td>0.02872</td> <td>1.34787</td> <td>0.17782</td> </tr> <tr> <td>B1</td> <td>0.02760</td> <td>0.00451</td> <td>6.11429</td> <td>0.00000</td> </tr> <tr> <td>B2</td> <td>0.04677</td> <td>0.00327</td> <td>14.28602</td> <td>0.00000</td> </tr> <tr> <td>B3</td> <td>0.93499</td> <td>0.00629</td> <td>148.58186</td> <td>0.00000</td> </tr> </tbody> </table>	N	R ²	Bias	RMSE	2634	NA	0.044950	1.314148	Coefficient	Estimate	Std.Error	t-value	Pr(> t)	B0	0.03871	0.02872	1.34787	0.17782	B1	0.02760	0.00451	6.11429	0.00000	B2	0.04677	0.00327	14.28602	0.00000	B3	0.93499	0.00629	148.58186	0.00000	<p>Max Diameter Model A-B Residuals</p> 
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Supplementary file S5. Yield model A-B-C fittings (continued)

<p>Naeslund's height equation (A-B-C) $H=d^2/(B0+B1*d)^2$</p> <p>Estimation Statistics</p> <table border="1"> <thead> <tr> <th>N</th> <th>R²</th> <th>Bias</th> <th>RMSE</th> </tr> </thead> <tbody> <tr> <td>58036</td> <td>0.923633</td> <td>0.056213</td> <td>2.033629</td> </tr> </tbody> </table> <p>Parameter Estimates</p> <table border="1"> <thead> <tr> <th>Coefficient</th> <th>Estimate</th> <th>Std.Error</th> <th>t-value</th> <th>Pr(> t)</th> </tr> </thead> <tbody> <tr> <td>B0</td> <td>-1.77172</td> <td>0.00364</td> <td>-487.345</td> <td>0.00000</td> </tr> <tr> <td>B1</td> <td>-0.14694</td> <td>0.00019</td> <td>-788.018</td> <td>0.00000</td> </tr> </tbody> </table>	N	R ²	Bias	RMSE	58036	0.923633	0.056213	2.033629	Coefficient	Estimate	Std.Error	t-value	Pr(> t)	B0	-1.77172	0.00364	-487.345	0.00000	B1	-0.14694	0.00019	-788.018	0.00000	<p style="text-align: center;">Tree Height Residuals</p> 
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